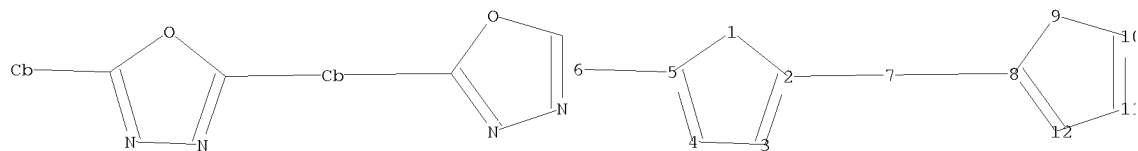


=>



chain nodes :

6 7

ring nodes :

1 2 3 4 5 8 9 10 11 12

chain bonds :

2-7 5-6 7-8

ring bonds :

1-2 1-5 2-3 3-4 4-5 8-9 8-12 9-10 10-11 11-12

exact/norm bonds :

1-2 1-5 2-3 3-4 4-5 8-9 8-12 9-10 10-11 11-12

exact bonds :

2-7 5-6 7-8

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom

L1 STRUCTURE UPLOADED

=> s l1 sss sam

SAMPLE SEARCH INITIATED 14:55:24 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 310 TO ITERATE

100.0% PROCESSED 310 ITERATIONS

44 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 5144 TO 7256

PROJECTED ANSWERS: 483 TO 1277

L2 44 SEA SSS SAM L1

=> s l1 sss full

FULL SEARCH INITIATED 14:55:29 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 6528 TO ITERATE

100.0% PROCESSED 6528 ITERATIONS

863 ANSWERS

SEARCH TIME: 00.00.01

L3 863 SEA SSS FUL L1

=> s l3

L4 706 L3

=> s l4 and polymer

1180643 POLYMER

941332 POLYMERS

1579171 POLYMER

(POLYMER OR POLYMERS)  
L5 261 L4 AND POLYMER

=> s l5 and electrolumin?  
79175 ELECTROLUMIN?  
L6 115 L5 AND ELECTROLUMIN?

=> s l6 and py<=2003  
23979372 PY<=2003  
L7 67 L6 AND PY<=2003

=> d scan l7

L7 67 ANSWERS CAPLUS COPYRIGHT 2008 ACS on STN

Title

Electroluminescent devices using amino-substituted polyaromatic compounds as hole-transporting or hole-injecting layers

Concept or Classification

73-11 (Optical, Electron, and Mass Spectroscopy and Other Related Properties) Section cross-reference(s): 38, 76

L7 67 ANSWERS CAPLUS COPYRIGHT 2008 ACS on STN

Title

Oxadiazoles and phenylquinoxalines as electron transport materials

Concept or Classification

73-11 (Optical, Electron, and Mass Spectroscopy and Other Related Properties) Section cross-reference(s): 38

L7 67 ANSWERS CAPLUS COPYRIGHT 2008 ACS on STN

Title

Amorphous organic thin film device and amorphous organic polymer composition

Concept or Classification

74-3 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes) Section cross-reference(s): 37, 52, 73, 76

=> s l7 and dev/rl  
790740 DEV/RL  
L8 52 L7 AND DEV/RL

=> d l8 ibib hitstr

L8 ANSWER 1 OF 52 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Improvement of emission efficiency in polymer light-emitting devices based on phosphorescent polymers

Author/Inventor

Tokito, Shizuo; Suzuki, Mitsunori; Sato, Fumio

Patent Assignee/Corporate Source

NHK Science and Technical Research Laboratories, Setagaya-ku, Tokyo, 157-8510, Japan

Source

Thin Solid Films (2003), 445(2), 353-357 CODEN: THSFAP; ISSN: 0040-6090

Document Type

Journal

Language

English

=> s l8 not 138372-67-5/rn  
224 138372-67-5  
0 138372-67-5D  
224 138372-67-5/RN  
(138372-67-5 (NOTL) 138372-67-5D )  
L9 27 L8 NOT 138372-67-5/RN

=> d l9 1-27 ibib hitstr

L9 ANSWER 1 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Organic electroluminescent devices of high luminescent efficiency and heat stability and tris(thienylphenyl)amine derivatives therefor

Author/Inventor

Yamamoto, Kimitoshi; Cho, Chun-Shi; Higuchi, Masayoshi; Kojima, Yojiro

Patent Assignee/Corporate Source

Kanagawa Academy of Science and Technology, Japan

Source

Jpn. Kokai Tokkyo Koho, 8 pp. CODEN: JKXXAF

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003267972	A	20030925	JP 2002-66189	20020311

Patent Number (1)

JP 2003267972

Kind Code (1)

A

Patent Publication Date (1)

20030925

Application Number (1)

JP 2002-66189

Application Date (1)

20020311

Priority Patent Number (1)

JP 2002-66189

Priority Patent Publication Date (1)

20020311

L9 ANSWER 2 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Luminescent copoly(aryl ether)s consisting of alternate oxadiazole and 1,4-distyrylbenzene derivatives: Synthesis and characterization

Author/Inventor

Yu, Yun-Hao; Chen, Yun

Patent Assignee/Corporate Source

Department of Chemical Engineering, National Cheng Kung University, Tainan, Taiwan

Source

Journal of Polymer Science, Part A: Polymer Chemistry (2003), 41(18), 2765-2777 CODEN: JPACEC; ISSN: 0887-624X

Document Type

Journal

Language

English

L9 ANSWER 3 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title

White light emission from polymer light-emitting devices based on blue and red phosphorescent polymers

Author/Inventor

Suzuki, Mitsunori; Tokito, Shizuo; Kamachi, Motoaki; Shirane, Kourou; Sato, Fumio

Patent Assignee/Corporate Source

NHK Science and Technical Research Laboratories, Tokyo, 157-8510, Japan

Source

Journal of Photopolymer Science and Technology (2003), 16(2), 309-314 CODEN: JSTEED; ISSN: 0914-9244

Document Type

Journal

Language

English

L9 ANSWER 4 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Synthesis and characterization of new poly(p-phenylenevinylene) derivative containing 5,5'-diphenyl-2,2'-p-(2,5-bis-hexyloxyphenylene)-bis-1,3,4-oxadiazole and distyrylbenzene moieties

Author/Inventor

Wu, Tzi-Yi; Lee, Nan-Chang; Chen, Yun

Patent Assignee/Corporate Source

Department of Chemical Engineering, National Cheng Kung University, Tainan, 701, Taiwan

Source

Synthetic Metals (2003), 139(2), 263-269 CODEN: SYMEDZ; ISSN: 0379-6779

Document Type

Journal

Language

English

L9 ANSWER 5 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Asymmetric dendrimers

Author/Inventor

Burn, Paul Leslie; Samuel, Ifor David William; Lo, Shi-Chun

Patent Assignee/Corporate Source

Isis Innovation Limited, UK

Source

PCT Int. Appl., 51 pp. CODEN: PIXXD2

Document Type

Patent

Language

English

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
<u>WO 2002066575</u>	<u>A1</u>	<u>20020829</u>	<u>WO 2002-GB765</u>	<u>20020220</u>

Patent Number (1)

WO 2002066575

Kind Code (1)

A1

Patent Publication Date (1)

20020829

Application Number (1)

WO 2002-GB765

Application Date (1)

20020220

Priority Patent Number (1)

GB 2001-4176

Priority Kind Code (1)

A

Priority Patent Publication Date (1)

20010220

L9 ANSWER 6 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Multi-layered polymer light-emitting devices prepared by vapor deposition polymerization

Author/Inventor

Murata, H.

Patent Assignee/Corporate Source

US Naval Research Laboratory, Washington, DC, 20375, USA

Source

Synthetic Metals (2001 ), 121(1-3), 1679-1680 CODEN: SYMEDZ; ISSN: 0379-6779

Document Type

Journal

Language

English

L9 ANSWER 7 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Both sides luminous type electroluminescent devices and displays

Author/Inventor

Yoshimura, Motomu

Patent Assignee/Corporate Source

Mitsubishi Electric Corp., Japan

Source

Jpn. Kokai Tokkyo Koho, 8 pp. CODEN: JKXXAF

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
<u>JP 2000058260</u>	<u>A</u>	<u>20000225</u>	<u>JP 1998-223881</u>	<u>19980807</u>

Patent Number (1)

JP 2000058260

Kind Code (1)

A

Patent Publication Date (1)

20000225

Application Number (1)

JP 1998-223881

Application Date (1)

19980807  
Priority Patent Number (1)  
JP 1998-223881  
Priority Patent Publication Date (1)  
19980807

L9 ANSWER 8 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title  
Efficient, blue light-emitting diodes using cross-linked layers of polymeric arylamine and fluorene  
Author/Inventor  
Chen, J. P.; Klaerner, G.; Lee, J.-I.; Markiewicz, D.; Lee, V. Y.; Miller, R. D.; Scott, J. C.  
Patent Assignee/Corporate Source  
Almaden Research Center, CPIMA, IBM Research Division, San Jose, CA, USA  
Source  
Synthetic Metals (1999 ), 107(2), 129-135 CODEN: SYMEDZ; ISSN: 0379-6779  
Document Type  
Journal  
Language  
English

L9 ANSWER 9 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title  
Efficient, blue light-emitting diodes using crosslinked polymer multilayers  
Author/Inventor  
Chen, J. P.; Klaerner, G.; Lee, J.-I.; Markiewicz, D.; Lee, V. Y.; Miller, R. D.; Scott, J. C.  
Patent Assignee/Corporate Source  
IBM Research Division, Almaden Research Center, San Jose, CA, 95120-6099, USA  
Source  
Polymer Preprints (American Chemical Society, Division of Polymer Chemistry) (1999 ), 40(2), 1232-1233 CODEN: ACPPAY; ISSN: 0032-3934  
Document Type  
Journal  
Language  
English

L9 ANSWER 10 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title  
Charge carrier trapping effect by luminescent dopant molecules in single-layer organic light emitting diodes  
Author/Inventor  
Uchida, Masahiro; Adachi, Chihaya; Koyama, Toshiki; Taniguchi, Yoshio  
Patent Assignee/Corporate Source  
Department of Functional Polymer Science, Shinshu University, Ueda, Nagano, 386-8567, Japan  
Source  
Journal of Applied Physics (1999 ), 86(3), 1680-1687 CODEN: JAPIAU; ISSN: 0021-8979  
Document Type  
Journal  
Language  
English

L9 ANSWER 11 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title  
Electroluminescent material  
Author/Inventor  
Boilot, Jean Pierre; Chaput, Frederic; Dantas de Morais, Tony Alberto; Gacoin, Thierry; Lahlil, Khalid  
Patent Assignee/Corporate Source  
Saint Gobain Vitrage S. A., Fr.  
Source  
Fr. Demande, 33 pp. CODEN: FRXXBL  
Document Type  
Patent  
Language  
French  
Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2770222	A1	19990430	FR 1997-13553	19971029

Patent Number (1)  
FR 2770222  
Kind Code (1)  
A1

Patent Publication Date (1)  
19990430  
Application Number (1)  
FR 1997-13553  
Application Date (1)  
19971029  
Priority Patent Number (1)  
FR 1997-13553  
Priority Patent Publication Date (1)  
19971029

L9 ANSWER 12 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title  
Novel oxadiazole-containing conjugated polymers as efficient single-layer light-emitting diodes  
Author/Inventor  
Peng, Zhonghua; Zhang, Jianheng  
Patent Assignee/Corporate Source  
Department of Chemistry, University of Missouri-Kansas City, Kansas City, MO, USA  
Source  
Synthetic Metals (1999 ), 105(1), 73-78 CODEN: SYMEDZ; ISSN: 0379-6779  
Document Type  
Journal  
Language  
English

L9 ANSWER 13 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title  
Developing technology: new polymers for single-layer LEDs  
Author/Inventor  
Peng, Zhonghua; Bao, Zhenan; Galvin, Mary E.  
Patent Assignee/Corporate Source  
Univ. Missouri, Kansas City, MO, 64110-2499, USA  
Source  
CHEMTECH (1999 ), 29(5), 41-46 CODEN: CHTEDD; ISSN: 0009-2703  
Document Type  
Journal  
Language  
English

L9 ANSWER 14 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title  
Novel polymers for single-layer light-emitting diodes  
Author/Inventor  
Peng, Zhonghua; Zhang, Jianheng  
Patent Assignee/Corporate Source  
Department of Chemistry, University of Missouri - Kansas City, Kansas City, MO, 64110, USA  
Source  
Polymeric Materials Science and Engineering ( 1999 ), 80, 183-184 CODEN: PMSEDG; ISSN: 0743-0515  
Document Type  
Journal  
Language  
English

L9 ANSWER 15 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title  
Charge carrier mobilities in molecular materials for electroluminescent diodes  
Author/Inventor  
Tsutsui, Tetsuo; Tokuhisa, Hiroaki; Era, Masanao  
Patent Assignee/Corporate Source  
Department of Materials Science and Technology, Graduate School of Engineering Sciences, Kyushu University, Fukuoka, 816, Japan  
Source  
Proceedings of SPIE-The International Society for Optical Engineering (1998 ), 3281(Polymer Photonic Devices), 230-239 CODEN: PSISDG; ISSN: 0277-786X  
Document Type  
Journal  
Language  
English

L9 ANSWER 16 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Effect of majority carrier space charges on minority carrier injection in dye doped polymer light-emitting devices

Author/Inventor

Berleb, S.; Brutting, W.; Schwoerer, M.; Wehrmann, R.; Elschner, A.

Patent Assignee/Corporate Source

Experimentalphysik II, Universitat Bayreuth, Bayreuth, 95440, Germany

Source

Journal of Applied Physics (1998), 83(8), 4403-4409 CODEN: JAPIAU; ISSN: 0021-8979

Document Type

Journal

Language

English

L9 ANSWER 17 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Nonplanar and branched electron transporting molecules for organic EL device

Author/Inventor

Tanaka, Hiromitsu; Tokito, Shizuo; Taga, Yasunori; Okada, Akane

Patent Assignee/Corporate Source

Toyota Central Research & Development Lab., Inc., Aichi-ken, 480-11, Japan

Source

Molecular Crystals and Liquid Crystals Science and Technology, Section A: Molecular Crystals and Liquid Crystals (1997), 295, 337-340 CODEN: MCLCE9; ISSN: 1058-725X

Document Type

Journal

Language

English

L9 ANSWER 18 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Oxadiazoles and phenylquinoxalines as electron transport materials

Author/Inventor

Bettenhausen, J.; Greczmiel, M.; Jandke, M.; Strohrig, P.

Patent Assignee/Corporate Source

Universitat Bayreuth, Makromolekulare Chemie I and Bayreuther Institut fur Makromolekulforschung (BIMF), 95440, Bayreuth, Germany

Source

Synthetic Metals (1997), 91(1-3), 223-228 CODEN: SYMEDZ; ISSN: 0379-6779

Document Type

Journal

Language

English

L9 ANSWER 19 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Polymethacrylates with pendant oxadiazole units synthesis and application in organic LEDs

Author/Inventor

Greczmiel, Michael; Strohrig, Peter; Meier, Martin; Bruetting, Wolfgang

Patent Assignee/Corporate Source

Universitaet Bayreuth, Bayreuth, 95440, Germany

Source

Macromolecules (1997), 30(20), 6042-6046 CODEN: MAMOBX; ISSN: 0024-9297

Document Type

Journal

Language

English

L9 ANSWER 20 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title

A novel fabrication technique and new conjugated polymers for multilayer polymer light-emitting diodes

Author/Inventor

Murata, Hideyuki; Ukishima, Sadayuki; Hirano, Hideki; Yamanaka, Tooru

Patent Assignee/Corporate Source

Chemical Synthesis Laboratories, Mitsui Petrochemical Industries Ltd., Sodegaura, 299-02, Japan

Source

Polymers for Advanced Technologies (1997), 8(7), 459-464 CODEN: PADTE5; ISSN: 1042-7147

Document Type

Journal

Language

English

L9 ANSWER 21 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Efficient green electroluminescent diodes based on poly(2-dimethyloctylsilyl-1,4- phenylenevinylene)

Author/Inventor

Kim, Sung Tae; Hwang, Do Hoon; Li, Xiao Chang; Gruener, Johannes; Friend, Richard H.; Holmes, Andrew B.; Shim, Hong Ku

Patent Assignee/Corporate Source

Cavendish Laboratory, Department Physics, Cambridge, CB2 0HE, UK

Source

Advanced Materials (Weinheim, Germany) (1996 ), 8(12), 979-982 CODEN: ADVMEW; ISSN: 0935-9648

Document Type

Journal

Language

English

L9 ANSWER 22 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Organic electroluminescent elements and manufacture thereof

Author/Inventor

Myata, Akio

Patent Assignee/Corporate Source

Sharp Kk, Japan

Source

Jpn. Kokai Tokyo Koho, 7 pp. CODEN: JKXXAF

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08236273	A	19960913	JP 1995-39731	19950228

Patent Number (1)

JP 08236273

Kind Code (1)

A

Patent Publication Date (1)

19960913

Application Number (1)

JP 1995-39731

Application Date (1)

19950228

Priority Patent Number (1)

JP 1995-39731

Priority Patent Publication Date (1)

19950228

L9 ANSWER 23 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title

New low molecular organic compounds with high glass transition temperature as materials for blue electroluminescence

Author/Inventor

Salbeck, Josef

Patent Assignee/Corporate Source

Corporate Research, Hoechst AG, Frankfurt/Main, D-65926, Germany

Source

Inorganic and Organic Electroluminescence, [International Workshop on Electroluminescence], 8th, Berlin, Aug. 13-15, 1996 (1996 ), 243-246. Editor(s): Mauch, Reiner H.; Gumlich, Hans-Eckhart. Wissenschaft und Technik: Berlin, Germany. CODEN: 63OXAW

Document Type

Conference

Language

English

L9 ANSWER 24 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Oxadiazole containing polymers and their use in polymer LEDs

Author/Inventor

Bettenhausen, J.; Bruetting, R.; Greczmiel, M.; Strohriegel, P.; Buchwald, E.; Meier, M.; Bruetting, W.; Schwoerer, M.

Patent Assignee/Corporate Source

Makromolekulare Chemie I, Universitat Bayreuth, Bayreuth, 95440, Germany

## Source

Inorganic and Organic Electroluminescence, [International Workshop on Electroluminescence], 8th, Berlin, Aug. 13-15, 1996 (1996), 239-242. Editor(s): Mauch, Reiner H.; Gumlich, Hans-Eckhart. Wissenschaft und Technik: Berlin, Germany. CODEN: 63OXAW

## Document Type

Conference

## Language

English

## L9 ANSWER 25 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

## Title

Polymers for use in optical devices

## Author/Inventor

Holmes, Andrew Bruce; Li, Xiao-Chang; Moratti, Stephen Carl; Murray, Kenneth Andrew; Friend, Richard Henry

## Patent Assignee/Corporate Source

Cambridge Display Technology Ltd., UK

## Source

PCT Int. Appl., 73 pp. CODEN: PIXXD2

## Document Type

Patent

## Language

English

## Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9620253	A1	19960704	WO 1995-GB3043	19951228

## Patent Number (1)

WO 9620253

## Kind Code (1)

A1

## Patent Publication Date (1)

19960704

## Application Number (1)

WO 1995-GB3043

## Application Date (1)

19951228

## Priority Patent Number (1)

GB 1994-26288

## Priority Kind Code (1)

A

## Priority Patent Publication Date (1)

19941228

## L9 ANSWER 26 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

## Title

1,3,4-Oxadiazole-Containing Polymers as Electron-Injection and Blue Electroluminescent Materials in Polymer Light-Emitting Diodes

## Author/Inventor

Pei, Q.; Yang, Y.

## Patent Assignee/Corporate Source

UNIAX Corporation, Santa Barbara, CA, 93117, USA

## Source

Chemistry of Materials (1995), 7(8), 1568-75 CODEN: CMATEX; ISSN: 0897-4756

## Document Type

Journal

## Language

English

## L9 ANSWER 27 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

## Title

Amorphous organic thin film device and amorphous organic polymer composition

## Author/Inventor

Naito, Katsuyuki

## Patent Assignee/Corporate Source

Tokyo Shibaura Electric Co, Japan

## Source

Jpn. Kokai Tokkyo Koho, 12 pp. CODEN: JKXXAF

## Document Type

Patent

## Language

Japanese

## Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06122277	A	19940506	JP 1993-40226	19930301

Patent Number (1)  
 JP 06122277  
 Kind Code (1)  
 A  
 Patent Publication Date (1)  
 19940506  
 Application Number (1)  
 JP 1993-40226  
 Application Date (1)  
 19930301  
 Priority Patent Number (1)  
 JP 1992-228348  
 Priority Kind Code (1)  
 A  
 Priority Patent Publication Date (1)  
 19920827

=> d his

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FILE 'REGISTRY' ENTERED AT 14:55:06 ON 03 MAR 2008

L1 STRUCTURE UPLOADED  
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 L3 863 S L1 SSS FULL

FILE 'CAPLUS' ENTERED AT 14:55:33 ON 03 MAR 2008

L4 706 S L3  
 L5 261 S L4 AND POLYMER  
 L6 115 S L5 AND ELECTROLUMIN?  
 L7 67 S L6 AND PY<=2003  
 L8 52 S L7 AND DEV/RL  
 L9 27 S L8 NOT 138372-67-5/RN

=> s 14 not 138372-67-5/rn  
 224 138372-67-5  
 0 138372-67-5D  
 224 138372-67-5/RN  
 (138372-67-5 (NOTL) 138372-67-5D )  
 L10 482 L4 NOT 138372-67-5/RN

=> l10 and dev/rl

L10 IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.  
 For a list of commands available to you in the current file, enter  
 "HELP COMMANDS" at an arrow prompt (=>).

=>

=> s l10 and dev/rl  
 790740 DEV/RL

L11 151 L10 AND DEV/RL

=> s l11 and py<=2003  
 23979372 PY<=2003

L12 112 L11 AND PY<=2003

=> d l12 ibib hitstr

L12 ANSWER 1 OF 112 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Effect of electrolytes on driving voltages of electroluminescent devices using liquid-crystalline matrices

Author/Inventor

Mochizuki, Hiroyuki; Kawamoto, Masuki; Ikeda, Tomiki

Patent Assignee/Corporate Source

Photonics Research Institutes, National Institute of Advanced Industrial Science and Technology, Osaka, 563-8577, Japan

Source

Japanese Journal of Applied Physics, Part 1: Regular Papers, Short Notes & Review Papers (2003), 42(12), 7366-7367 CODEN:  
 JAPNDE

Document Type

Journal

Language  
English

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Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.
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L15 107 L12 NOT L14

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    0 184101-38-0D
    11 184101-38-0/RN
      (184101-38-0 (NOTL) 184101-38-0D )
L16          107 L12 NOT 184101-38-0/RN
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=> d 116 ibib hitstr
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L16 ANSWER 1 OF 107 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Organic electroluminescent devices of high luminescent efficiency and heat stability and tris(thienylphenyl)amine derivatives therefor

Author/Inventor

Yamamoto, Kimitoshi; Cho, Chun-Shi; Higuchi, Masayoshi; Kojima, Yojiro

Patent Assignee/Corporate Source

Kanagawa Academy of Science and Technology, Japan

Source

Jpn. Kokai Tokkyo Koho, 8 pp. CODEN: JKXXAF

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
<u>JP 2003267972</u>	<u>A</u>	<u>20030925</u>	<u>JP 2002-66189</u>	<u>20020311</u>

Patent Number (1)

JP 2003267972

Kind Code (1)

A

Patent Publication Date (1)

20030925

Application Number (1)

JP 2002-66189

Application Date (1)

20020311

Priority Patent Number (1)

JP 2002-66189

Priority Patent Publication Date (1)

20020311

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=> s 116 not 148044-16-0/rn
    63 148044-16-0
    0 148044-16-0D
    63 148044-16-0/RN
      (148044-16-0 (NOTL) 148044-16-0D )
L17          84 L16 NOT 148044-16-0/RN
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=> d 117 ibib hitstr
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L17 ANSWER 1 OF 84 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Luminescent copoly(aryl ether)s consisting of alternate oxadiazole and 1,4-distyrylbenzene derivatives: Synthesis and characterization

Author/Inventor

Yu, Yun-Hao; Chen, Yun

Patent Assignee/Corporate Source

Department of Chemical Engineering, National Cheng Kung University, Tainan, Taiwan

Source

Journal of Polymer Science, Part A: Polymer Chemistry (2003 ), 41(18), 2765-2777 CODEN: JPACEC; ISSN: 0887-624X

Document Type

Journal

Language

English

=> d 117 2 hitstr

L17 ANSWER 2 OF 84 CAPLUS COPYRIGHT 2008 ACS on STN

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=> s 117 not 61843-06-9/rn
      22 61843-06-9
      0 61843-06-9D
      22 61843-06-9/RN
      (61843-06-9 (NOTL) 61843-06-9D )
L18      74 L17 NOT 61843-06-9/RN
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=> d 118 2 hitstr

L18 ANSWER 2 OF 74 CAPLUS COPYRIGHT 2008 ACS on STN

=> d 118 3 hitstr

L18 ANSWER 3 OF 74 CAPLUS COPYRIGHT 2008 ACS on STN

```
=> s 118 not 545392-62-9/rn
      1 545392-62-9
      0 545392-62-9D
      1 545392-62-9/RN
      (545392-62-9 (NOTL) 545392-62-9D )
L19      73 L18 NOT 545392-62-9/RN
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=> d 119 3 hitstr

L19 ANSWER 3 OF 73 CAPLUS COPYRIGHT 2008 ACS on STN

=> d 119 5 hitstr

L19 ANSWER 5 OF 73 CAPLUS COPYRIGHT 2008 ACS on STN

```
=> s 119 not 171408-95-0/rn
      12 171408-95-0
      0 171408-95-0D
      12 171408-95-0/RN
      (171408-95-0 (NOTL) 171408-95-0D )
L20      66 L19 NOT 171408-95-0/RN
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=> d 120 4 hitstr

L20 ANSWER 4 OF 66 CAPLUS COPYRIGHT 2008 ACS on STN

```
=> s 120 not365999-68-4/rn
MISSING OPERATOR L20 NOT365999-6
The search profile that was entered contains terms or
nested terms that are not separated by a logical operator.
```

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=> s 120 not 365999-68-4/rn
      2 365999-68-4
      0 365999-68-4D
      2 365999-68-4/RN
      (365999-68-4 (NOTL) 365999-68-4D )
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L21 64 L20 NOT 365999-68-4/RN

=> d l21 4 hitstr

L21 ANSWER 4 OF 64 CAPLUS COPYRIGHT 2008 ACS on STN

=> d l21 5 hitstr

L21 ANSWER 5 OF 64 CAPLUS COPYRIGHT 2008 ACS on STN

=> d l21 6 hitstr

L21 ANSWER 6 OF 64 CAPLUS COPYRIGHT 2008 ACS on STN

=> s l21 not 473906-58-0

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...  
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L23 1 L22

L24 63 L21 NOT L23

=> d l24 6 hitstr

L24 ANSWER 6 OF 63 CAPLUS COPYRIGHT 2008 ACS on STN

=> s l24 not 471911-31-6/rn

1 471911-31-6

0 471911-31-6D

1 471911-31-6/RN

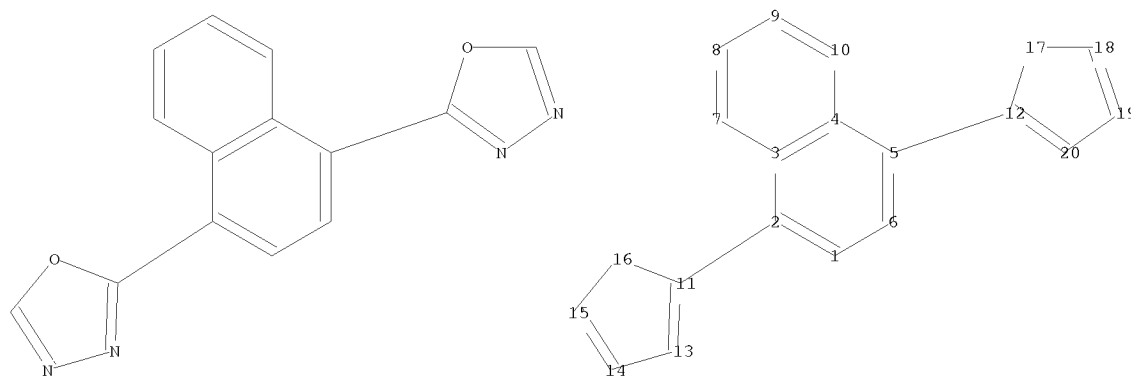
(471911-31-6 (NOTL) 471911-31-6D )

L25 62 L24 NOT 471911-31-6/RN

=> d l25 6 hitstr

L25 ANSWER 6 OF 62 CAPLUS COPYRIGHT 2008 ACS on STN

=>



ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

chain bonds :

2-11 5-12

ring bonds :

1-2 1-6 2-3 3-4 3-7 4-5 4-10 5-6 7-8 8-9 9-10 11-13 11-16 12-17 12-20 13-14 14-15 15-16 17-18 18-19 19-20

exact/norm bonds :

11-13 11-16 12-17 12-20 13-14 14-15 15-16 17-18 18-19 19-20

exact bonds :

2-11 5-12

normalized bonds :

1-2 1-6 2-3 3-4 3-7 4-5 4-10 5-6 7-8 8-9 9-10

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom

L26        STRUCTURE UPLOADED

=> s l26 sss sam

SAMPLE SEARCH INITIATED 15:20:29 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED -        56 TO ITERATE

100.0% PROCESSED        56 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:    ONLINE    \*\*COMPLETE\*\*

BATCH    \*\*COMPLETE\*\*

PROJECTED ITERATIONS:        672 TO        1568

PROJECTED ANSWERS:        0 TO        0

L27        0 SEA SSS SAM L26

=> s l26 sss full

FULL SEARCH INITIATED 15:20:39 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED -        901 TO ITERATE

100.0% PROCESSED        901 ITERATIONS

24 ANSWERS

SEARCH TIME: 00.00.01

L28        24 SEA SSS FUL L26

=> s l28

L29        9 L28

=> d l9 1-9 ibib hitsr

'HITSR' IS NOT A VALID FORMAT FOR FILE 'CAPLUS'

The following are valid formats:

ABS ----- GI and AB

ALL ----- BIB, AB, IND, RE

APPS ----- AI, PRAI

BIB ----- AN, plus Bibliographic Data and PI table (default)

CAN ----- List of CA abstract numbers without answer numbers

CBIB ----- AN, plus Compressed Bibliographic Data

DALL ----- ALL, delimited (end of each field identified)

DMAX ----- MAX, delimited for post-processing

FAM ----- AN, PI and PRAI in table, plus Patent Family data

FBIB ----- AN, BIB, plus Patent FAM

IND ----- Indexing data

MAX ----- ALL, plus Patent FAM, RE

SAM ----- CC, SX, TI, ST, IT  
SCAN ----- CC, SX, TI, ST, IT (random display, no answer numbers;  
SCAN must be entered on the same line as the DISPLAY,  
e.g., D SCAN or DISPLAY SCAN)  
STD ----- BIB, CLASS

IABS ----- ABS, indented with text labels  
IALL ----- ALL, indented with text labels  
IBIB ----- BIB, indented with text labels  
IMAX ----- MAX, indented with text labels  
ISTD ----- STD, indented with text labels

OBIB ----- AN, plus Bibliographic Data (original)  
OIBIB ----- OBIB, indented with text labels

SBIB ----- BIB, no citations  
SIBIB ----- IBIB, no citations

HIT ----- Fields containing hit terms  
HITIND ----- IC, ICA, ICI, NCL, CC and index field (ST and IT)  
containing hit terms  
HITRN ----- HIT RN and its text modification  
HITSTR ----- HIT RN, its text modification, its CA index name, and  
its structure diagram  
HITSEQ ----- HIT RN, its text modification, its CA index name, its  
structure diagram, plus NTE and SEQ fields  
FHITSTR ----- First HIT RN, its text modification, its CA index name, and  
its structure diagram  
FHITSEQ ----- First HIT RN, its text modification, its CA index name, its  
structure diagram, plus NTE and SEQ fields  
KWIC ----- Hit term plus 20 words on either side  
OCC ----- Number of occurrence of hit term and field in which it occurs

To display a particular field or fields, enter the display field codes. For a list of the display field codes, enter HELP DFIELDS at an arrow prompt (=>). Examples of formats include: TI; TI,AU; BIB,ST; TI,IND; TI,SO. You may specify the format fields in any order and the information will be displayed in the same order as the format specification.

All of the formats (except for SAM, SCAN, HIT, HITIND, HITRN, HITSTR, FHITSTR, HITSEQ, FHITSEQ, KWIC, and OCC) may be used with DISPLAY ACC to view a specified Accession Number.  
ENTER DISPLAY FORMAT (BIB):end

=> d 19 1-9 ibib hitstr

# L9 ANSWER 1 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

## Title

Organic electroluminescent devices of high luminescent efficiency and heat stability and tris(thienylphenyl)amine derivatives therefor

## Author/Inventor

Yamamoto, Kimitoshi; Cho, Chun-Shi; Higuchi, Masayoshi; Kojima, Yojiro

## Patent Assignee/Corporate Source

Kanagawa Academy of Science and Technology, Japan

## Source

Jpn. Kokai Tokkyo Koho, 8 pp. CODEN: JKXXAF

## Document Type

Patent

## Language

Japanese

## Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003267972	A	20030925	JP 2002-66189	20020311

## Patent Number (1)

JP 2003267972

## Kind Code (1)

A

## Patent Publication Date (1)

20030925

## Application Number (1)

JP 2002-66189

## Application Date (1)

20020311  
Priority Patent Number (1)  
JP 2002-66189  
Priority Patent Publication Date (1)  
20020311

L9 ANSWER 2 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title Luminescent copoly(aryl ether)s consisting of alternate oxadiazole and 1,4-distyrylbenzene derivatives: Synthesis and characterization  
Author/Inventor Yu, Yun-Hao; Chen, Yun  
Patent Assignee/Corporate Source Department of Chemical Engineering, National Cheng Kung University, Tainan, Taiwan  
Source Journal of Polymer Science, Part A: Polymer Chemistry (2003 ), 41(18), 2765-2777 CODEN: JPACEC; ISSN: 0887-624X  
Document Type Journal  
Language English

L9 ANSWER 3 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title White light emission from polymer light-emitting devices based on blue and red phosphorescent polymers  
Author/Inventor Suzuki, Mitsunori; Tokito, Shizuo; Kamachi, Motoaki; Shirane, Kourou; Sato, Fumio  
Patent Assignee/Corporate Source NHK Science and Technical Research Laboratories, Tokyo, 157-8510, Japan  
Source Journal of Photopolymer Science and Technology ( 2003 ), 16(2), 309-314 CODEN: JSTEED; ISSN: 0914-9244  
Document Type Journal  
Language English

L9 ANSWER 4 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title Synthesis and characterization of new poly(p-phenylenevinylene) derivative containing 5,5'-diphenyl-2,2'-p-(2,5-bis-hexyloxyphenylene)-bis- 1,3,4-oxadiazole and distyrylbenzene moieties  
Author/Inventor Wu, Tzi-Yi; Lee, Nan-Chang; Chen, Yun  
Patent Assignee/Corporate Source Department of Chemical Engineering, National Cheng Kung University, Tainan, 701, Taiwan  
Source Synthetic Metals (2003 ), 139(2), 263-269 CODEN: SYMEDZ; ISSN: 0379-6779  
Document Type Journal  
Language English

L9 ANSWER 5 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title Asymmetric dendrimers  
Author/Inventor Burn, Paul Leslie; Samuel, Ifor David William; Lo, Shi-Chun  
Patent Assignee/Corporate Source Isis Innovation Limited, UK  
Source PCT Int. Appl., 51 pp. CODEN: PIXXD2  
Document Type Patent  
Language English  
Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002066575	A1	20020829	WO 2002-GB765	20020220

Patent Number (1)  
WO 2002066575  
Kind Code (1)

A1  
Patent Publication Date (1)  
20020829  
Application Number (1)  
WO 2002-GB765  
Application Date (1)  
20020220  
Priority Patent Number (1)  
GB 2001-4176  
Priority Kind Code (1)  
A  
Priority Patent Publication Date (1)  
20010220

L9 ANSWER 6 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title  
Multi-layered polymer light-emitting devices prepared by vapor deposition polymerization  
Author/Inventor  
Murata, H.  
Patent Assignee/Corporate Source  
US Naval Research Laboratory, Washington, DC, 20375, USA  
Source  
Synthetic Metals (2001 ), 121(1-3), 1679-1680 CODEN: SYMEDZ; ISSN: 0379-6779  
Document Type  
Journal  
Language  
English

L9 ANSWER 7 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title  
Both sides luminous type electroluminescent devices and displays  
Author/Inventor  
Yoshimura, Motomu  
Patent Assignee/Corporate Source  
Mitsubishi Electric Corp., Japan  
Source  
Jpn. Kokai Tokkyo Koho, 8 pp. CODEN: JKXXAF  
Document Type  
Patent  
Language  
Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
<u>JP 2000058260</u>	<u>A</u>	<u>20000225</u>	<u>JP 1998-223881</u>	<u>19980807</u>

Patent Number (1)  
JP 2000058260  
Kind Code (1)  
A  
Patent Publication Date (1)  
20000225  
Application Number (1)  
JP 1998-223881  
Application Date (1)  
19980807  
Priority Patent Number (1)  
JP 1998-223881  
Priority Patent Publication Date (1)  
19980807

L9 ANSWER 8 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title  
Efficient, blue light-emitting diodes using cross-linked layers of polymeric arylamine and fluorene  
Author/Inventor  
Chen, J. P.; Klaerner, G.; Lee, J.-I.; Markiewicz, D.; Lee, V. Y.; Miller, R. D.; Scott, J. C.  
Patent Assignee/Corporate Source  
Almaden Research Center, CPIMA, IBM Research Division, San Jose, CA, USA  
Source  
Synthetic Metals (1999 ), 107(2), 129-135 CODEN: SYMEDZ; ISSN: 0379-6779  
Document Type  
Journal

Language  
English

L9 ANSWER 9 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Efficient, blue light-emitting diodes using crosslinked polymer multilayers

Author/Inventor

Chen, J. P.; Klaerner, G.; Lee, J.-I.; Markiewicz, D.; Lee, V. Y.; Miller, R. D.; Scott, J. C.

Patent Assignee/Corporate Source

IBM Research Division, Almaden Research Center, San Jose, CA, 95120-6099, USA

Source

Polymer Preprints (American Chemical Society, Division of Polymer Chemistry) (1999 ), 40(2), 1232-1233 CODEN: ACPPAY; ISSN: 0032-3934

Document Type

Journal

Language

English

=> d his

(FILE 'HOME' ENTERED AT 14:54:50 ON 03 MAR 2008)

FILE 'REGISTRY' ENTERED AT 14:55:06 ON 03 MAR 2008

L1 STRUCTURE UPLOADED

L2 44 S L1 SSS SAM

L3 863 S L1 SSS FULL

FILE 'CAPLUS' ENTERED AT 14:55:33 ON 03 MAR 2008

L4 706 S L3

L5 261 S L4 AND POLYMER

L6 115 S L5 AND ELECTROLUMIN?

L7 67 S L6 AND PY<=2003

L8 52 S L7 AND DEV/RL

L9 27 S L8 NOT 138372-67-5/RN

L10 482 S L4 NOT 138372-67-5/RN

L11 151 S L10 AND DEV/RL

L12 112 S L11 AND PY<=2003

S L12 NOT 184101-38-0/REG#

FILE 'REGISTRY' ENTERED AT 15:08:07 ON 03 MAR 2008

L13 1 S 184101-38-0/RN

FILE 'CAPLUS' ENTERED AT 15:08:07 ON 03 MAR 2008

L14 11 S L13

L15 107 S L12 NOT L14

L16 107 S L12 NOT 184101-38-0/RN

L17 84 S L16 NOT 148044-16-0/RN

L18 74 S L17 NOT 61843-06-9/RN

L19 73 S L18 NOT 545392-62-9/RN

L20 66 S L19 NOT 171408-95-0/RN

L21 64 S L20 NOT 365999-68-4/RN

S L21 NOT 473906-58-0/REG#

FILE 'REGISTRY' ENTERED AT 15:12:55 ON 03 MAR 2008

L22 1 S 473906-58-0/RN

FILE 'CAPLUS' ENTERED AT 15:12:55 ON 03 MAR 2008

L23 1 S L22

L24 63 S L21 NOT L23

L25 62 S L24 NOT 471911-31-6/RN

FILE 'REGISTRY' ENTERED AT 15:19:41 ON 03 MAR 2008

L26 STRUCTURE UPLOADED

L27 0 S L26 SSS SAM

L28 24 S L26 SSS FULL

FILE 'CAPLUS' ENTERED AT 15:20:43 ON 03 MAR 2008

L29 9 S L28

=> d l29 1-9 ibib hitstr

L29 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Organic electroluminescence display showing high heat-resistance, low voltage driving, and extended service life

Author/Inventor

Toba, Yasumasa; Tanaka, Hiroaki; Odachi, Yoshitake; Suda, Yasumasa; Yagi, Tamao

Patent Assignee/Corporate Source

Toyo Ink Mfg. Co., Ltd., Japan

Source

Jpn. Kokai Tokkyo Koho, 101pp. CODEN: JKXXAF

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007109988	A	20070426	JP 2005-301171	20051017

Patent Number (1)

JP 2007109988

Kind Code (1)

A

Patent Publication Date (1)

20070426

Application Number (1)

JP 2005-301171

Application Date (1)

20051017

Priority Patent Number (1)

JP 2005-301171

Priority Patent Publication Date (1)

20051017

L29 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Preparation of polymers with high luminance and durability for blue light-emitting devices

Author/Inventor

Nakaya, Tadao; Matsumoto, Ryoji; Saikawa, Tomoyuki

Patent Assignee/Corporate Source

Hirose Engineering Co., Ltd., Japan

Source

PCT Int. Appl., 59 pp. CODEN: PIXXD2

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006025219	A1	20060309	WO 2005-JP15047	20050818

Patent Number (1)

WO 2006025219

Kind Code (1)

A1

Patent Publication Date (1)

20060309

Application Number (1)

WO 2005-JP15047

Application Date (1)

20050818

Priority Patent Number (1)

JP 2004-254047

Priority Kind Code (1)

A

Priority Patent Publication Date (1)

20040901

L29 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Light-emitting compound and polymer and luminescent element

Author/Inventor

Nakaya, Tadao; Matsumoto, Ryoji; Ishitobi, Tatsuro

Patent Assignee/Corporate Source

Hirose Engineering Co., Ltd., Japan

Source

Eur. Pat. Appl., 74 pp. CODEN: EPXXDW

Document Type

Patent

Language

English

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1516903	A1	20050323	EP 2004-22456	20040921

Patent Number (1)

EP 1516903

Kind Code (1)

A1

Patent Publication Date (1)

20050323

Application Number (1)

EP 2004-22456

Application Date (1)

20040921

Priority Patent Number (1)

JP 2003-330594

Priority Kind Code (1)

A

Priority Patent Publication Date (1)

20030922

L29 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Luminescent polymers for light emitting devices

Author/Inventor

Nakaya, Tadao; Tobita, Michiaki; Eto, Naonobu; Kodera, Toshihiro

Patent Assignee/Corporate Source

Hirose Engineering Co., Ltd., Japan

Source

PCT Int. Appl., 100 pp. CODEN: PIXXD2

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004039866	A1	20040513	WO 2003-JP13597	20031024

Patent Number (1)

WO 2004039866

Kind Code (1)

A1

Patent Publication Date (1)

20040513

Application Number (1)

WO 2003-JP13597

Application Date (1)

20031024

Priority Patent Number (1)

JP 2002-315029

Priority Kind Code (1)

A

Priority Patent Publication Date (1)

20021029

L29 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Triptycene derivatives and their use for optoelectronic applications, particularly as electroluminescent materials

Author/Inventor

Salbeck, Josef; Becker, Heinrich; Kreuder, Willi; Weinfurter, Karl Heinz

Patent Assignee/Corporate Source

Hoechst A.-G., Germany

Source

Ger. Offen., 22 pp. CODEN: GWXXBX

Document Type

Patent

Language

German

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19744792	A1	19990415	DE 1997-19744792	19971010

Patent Number (1)

DE 19744792

Kind Code (1)

A1

Patent Publication Date (1)

19990415

Application Number (1)

DE 1997-19744792

Application Date (1)

19971010

Priority Patent Number (1)

DE 1997-19744792

Priority Kind Code (1)

A

Priority Patent Publication Date (1)

19971010

L29 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Novel amorphous molecular materials for organic light-emitting devices

Author/Inventor

Weinfurter, Karl-Heinz; Weissortel, Frank; Harmgarth, Gabriele; Salbeck, Josef

Patent Assignee/Corporate Source

Max-Planck-Institut für Polymerforschung, Mainz, D-55128, Germany

Source

Proceedings of SPIE-The International Society for Optical Engineering (1998), 3476(Organic Light-Emitting Materials and Devices II), 40-48 CODEN: PSISDG; ISSN: 0277-786X

Document Type

Journal

Language

English

L29 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Bis(oxadiazolyl)naphthalene fluorescent whiteners

Author/Inventor

Schinzl, Erich; Martini, Thomas; Spatzier, Winfried; Probst, Heinz

Patent Assignee/Corporate Source

Hoechst A.-G. , Fed. Rep. Ger.

Source

Ger. Offen., 32 pp. CODEN: GWXXBX

Document Type

Patent

Language

German

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3126464	A1	19830120	DE 1981-3126464	19810704

Patent Number (1)

DE 3126464

Kind Code (1)

A1

Patent Publication Date (1)

19830120

Application Number (1)

DE 1981-3126464

Application Date (1)

19810704

Priority Patent Number (1)

DE 1981-3126464

Priority Kind Code (1)

A

Priority Patent Publication Date (1)

19810704

L29 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Benzofuran derivatives useful as fluorescent whiteners

Author/Inventor

Prossel, Guenter; Sahm, Winfrid; Schinzel, Erich; Roesch, Guenter

Patent Assignee/Corporate Source

Hoechst A.-G., Fed. Rep. Ger.

Source

Ger. Offen., 29 pp. CODEN: GWXXBX

Document Type

Patent

Language

German

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2509514	A1	19760916	DE 1975-2509514	19750305

Patent Number (1)

DE 2509514

Kind Code (1)

A1

Patent Publication Date (1)

19760916

Application Number (1)

DE 1975-2509514

Application Date (1)

19750305

Priority Patent Number (1)

DE 1975-2509514

Priority Kind Code (1)

A

Priority Patent Publication Date (1)

19750305

L29 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Vat dyes of the bis(anthraquinone 1,3,4-oxadiazole) series

Author/Inventor

Stilmar, Frederic B.

Patent Assignee/Corporate Source

E. I. du Pont de Nemours & Co.

Document Type

Patent

Language

Unavailable

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2511018		19500613	US 1949-81619	19490315

Patent Number (1)

US 2511018

Patent Publication Date (1)

19500613

Application Number (1)

US 1949-81619

Application Date (1)

19490315

=>

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